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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/839,039 | 04/20/2001 | Jean-Francois Rameau | 5974-076 | 3623 |

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EXAMINER

CRAIG, DWIN M

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2123

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/839,039

Applicant(s)

RAMEAU ET AL.

Examiner

Dwin M Craig

Art Unit

2123

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 26-29, 31, 32 and 34-36 is/are rejected.
- 7) ☒ Claim(s) 7-25, 30, 33 and 37 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-37 have been presented for Examination.

Specification

2. The abstract of the disclosure is objected to because; in line 3 of the Abstract the words “*surfaceto*” do not have a space between them. Correction is required. See MPEP § 608.01(b).

Claim Objections

3. Dependent **Claim 20** is objected to because of the following informalities: There is a period after the word “*draft*” on the second line of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Dependent **Claim 16** rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear to the Examiner exactly what the *meets and bounds* are of the term “*guaranteed*” as disclosed in dependent **Claim 16**. Amendment and clarification are required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Independent **Claims 1, 26, 27, 28, 31, 34 and 35** and dependent **Claims 2, 3, 4, 5, 6, 29, 32 and 36** are rejected under 35 U.S.C. 102(b) as being anticipated by **Weiss et al. U.S. Patent 5,189,781**.

5.1 As regards independent **Claims 1, 26, 27, 28, 31, 34 and 35** the *Weiss et al.* reference teaches,

A Computer Aided Manufacturing system (**Col. 1 Lines 18-51**), for designing a part (**Figure 10**), selecting a parting surface with a first side and a second side (**Col. 3 Lines 40-53**), a draft angle (**Col. 12 Lines 6-8**), where the sides meet on a parting surface (**Figure 4**), and there is a corner radius “*convex corner*” (**Figure 9 and Col. 9 Lines 20-33**).

5.2 As regards dependent **Claim 2** the *Weiss et al.* reference teaches using a selected face (**Figure 10**).

5.3 As regards dependent **Claim 3** it is inherent in the *Weiss et al.* reference that a pulling direction for the mold would be selected.

5.4 As regards dependent **Claim 4** the *Weiss et al.* reference teaches a plurality of faces (**Figure 4**).

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5.5 As regards dependent **Claim 5** the *Weiss et al.* reference teaches a “sharp edge” (Figure 3).

5.6 As regards dependent **Claim 6** the *Weiss et al.* reference teaches displaying the designed part (Figures 5, 6a & 6b).

5.7 As regards dependent **Claims 29, 32 & 36** the *Weiss et al.* reference teaches a corner radius “convex corner” (Figure 9 and Col. 9 Lines 20-33).

6. Independent **Claims 1, 26, 27, 28, 31, 34 and 35** are rejected under 35 U.S.C. 102(b) as being anticipated by **Sebastian U.S. Patent 5,552,995**.

6.1 As regards independent **Claims 1, 26, 27, 28, 31, 34 and 35** the *Sebastian* reference teaches;

A Computer Aided Manufacturing system (Figures 2 & 3), for designing a part (Col. 3 Lines 50-67, Col. 4 Lines 1-6, Col. 5 Lines 9-19), selecting a parting surface with a first side and a second side (Figures 2A and 2B), a draft angle (Col. 11 Lines 32-49), where the sides meet on a parting surface (Figure 8, the *Ultra sonic weld* is where the parting surfaces meet).

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Independent **Claims 1, 26, 27, 28, 31, 34 and 35** and dependent **Claims 2, 3, 4, 5, 6, 29, 32 and 36** are rejected under 35 U.S.C. 102(e) as being anticipated by **Liou et al. U.S. Patent 6,484,063**.

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7.1 As regards independent **Claims 1, 26, 27, 28, 31, 34 and 35** the *Liou et al.* reference teaches,

A Computer Aided Manufacturing system (**Figure 2**), for designing a part (**Figure 4 Items 334, 340 & 346**), selecting a parting surface with a first side and a second side (**Figure 4 Items 342 & 348**), a draft angle (**Figure 3 Items 244, 246 & 247, Col. 3 Lines 7-15**), where the sides meet on a parting surface (**Figure 3 Items 248 & 260**), and there is a corner radius “*sharp edge*” (**Figure 3 Items 256 & 258**).

7.2 As regards dependent **Claim 2** the *Liou et al.* reference teaches using a selected face (**Col. 4 Lines 46-55**), the Examiner notes that the reference discusses a 3-D view of the part which inherently show the many faces of the part.

7.3 As regards dependent **Claim 3** it is inherent in the *Liou et al.* reference that a pulling direction for the mold would be selected.

7.4 As regards dependent **Claim 4** the *Liou et al.* reference teaches a plurality of faces (**Col. 4 Lines 46-55**), the Examiner notes that the reference discusses a 3-D view of the part which inherently show the many faces of the part.

7.5 As regards dependent **Claim 5** the *Liou et al.* reference teaches a “*sharp edge*” (**Figure 3 Items 256 & 258, Col. 6 Lines 28-42**).

7.6 As regards dependent **Claim 6** the *Liou et al.* reference teaches displaying the designed part (**Col. 4 Lines 46-55**).

7.7 As regards dependent **Claims 29, 32 & 36** the *Liou et al.* reference teaches a corner radius “*sharp edge*” (**Col. 6 Lines 28-42**).

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Allowable Subject Matter

8. **Claims 7-25, 30, 33 and 37** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Examiner notes that dependent **Claim 16** is also being rejected under 35 U.S.C. 112 2nd paragraph, *see section 4 above*.

Conclusion

9. Claims 1-37 have been presented for Examination. Claims 1-6, 26-29, 31, 32 and 34-36 have been rejected. Claims 7-25, 30, 33 and 37 have been objected to. This Office Action is **Non-Final**.

9.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on (571)272-3716. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

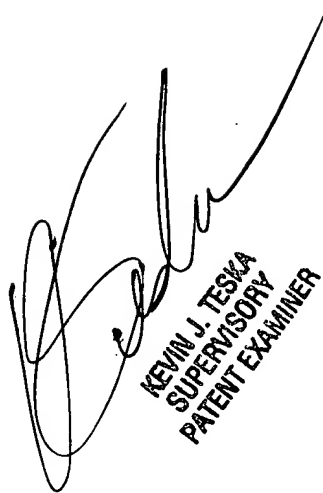
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DMC



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